

RAW SEQUENCE LISTING ERROR REPORT



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Application Serial Number:	/0	1088			· .
Source:	7		al Pe	1/10	
Date Processed by STIC:		}	1/6/2	002	·

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Revised 01/29/2002





RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,639

DATE: 08/06/2002

TIME: 14:10:46

Inrut Set : A:N:03363-920.8025.txu Output Set: N:\CRF3\08062002\J088639.raw

4 <110> APPLICANT: Brodin, Thomas 5 Karlstrom, Pia J. Ohlsson, Lennart G. Tordsson, Jesper M. Kearney, Philip P. 9 Nilson, Bo H.K. 11 <120> TITLE OF INVENTION: Novel Compounds 11 <120> TITLE OF TRIVENCE: 003300-920 15 <140> CURRENT APPLICATION NUMBER: US 10/088,639 16 <141> CURRENT FILING DATE: 2002-03-20 18 <150> PRIOR APPLICATION NUMBER: SE 9903895-2 19 <1513 PRIOR FILING DATE: 1999-10-28 21 <160> NUMBER OF SEQ ID NOS: 51 -23 <170> SOFTWARE: PatentIn Ver. 2.1 programme in the company of the second

Does Not Comply Corrected Diskette Needec

ERRÖRED SEQUENCES

25 <210> SEQ ID NO: 1 26 <211> LENGTH: 747 27 <212> TYPE: DNA 28 <213> ORGANISM: Macaca fascicularis 30 <221> NAME/KEY: CDS = 31 <222> LOCATION: (1)..(747) 33 <223> OTHER INFORMATION: Coding sequence VL (1-109) - modified Huston 34 linker (110-127) - VH (128-249) 36 <400> SEQUENCE: 1 37 tet tet gag etg act eag gge eet gea ttg tet gtg gee ttg gga eat 38 Ser Ser Glu Leu Thr Gln Gly Pro Ala Leu Ser Val Ala Leu Gly His 10 41 aca gtc agg atg acc tgc caa gga gac agc ctc aaa acc tat tat gca 42 Thr Val Arg Met. Thr Cys Gln Gly Asp Ser Leu Lys Thr Tyr Tyr Ala 20 25 30 45 age tgg tac cag cag aag cca gge cag gte cet gtg ctg gte ate tat 46 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Val Pro Val Leu Val Ile Tyr 45 40 49 ggt aac aac tac cgg ccc tca ggg atc cca ggc cga ttc tct ggc tcc 50 Gly Asn Asn Tyr Arg Pro Ser Gly Ile Pro Gly Arg Phe Ser Gly Ser 51 50 55 . 60 53 tgg tea gga aac aca get tee ttg acc atc act geg get cag gtg gaa 54 Trp Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Ala Ala Gln Val Glu . 55 - 65 70 75 75 80 57 gat gag gct gac tat tac tgt aac tcc tgg gac agc agc ggt acc cat

RAW SEQUENCE LISTING DATE: 08/06/2002
PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set: A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

58 Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Trp Asp Ser Ser Gly Thr His 8.5 90 61 ceg gta tte gge gga ggg ace egg gtg ace gte eta ggt caa gee aac 336 62 Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu Gly Gln Ala Asn 63 ---100 105 65 got gaa ggo ggo tot ggt ogo gga too gga ggo ggo ggt tot gag 66 Gly Alo Gly Gly sam Gly Gly Gly Gly Ger Gly Gry Gly Gly Ser Glo 115 68 gtg cag ttg gtg gag tot ggg gga ggo ttg gta aag oot ggg ggg too 69 Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly Ser 70 130 135 140 72 ctq aga ctc tct tgt gta gcc tct ggg tcc atc ttc agt agc tct gtt 480 73 Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Ser Ser Val 74 145 150 155 160 76 atg cac tgg gtc cgc cag gct cca gga aag ggt ctg gag tgg gtc tca 528 77 Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
165 170 175 78 165 170 175
80 gtt att agt gaa aat ggg cgt acc att aac tac gca gac tct gtg aag 576 81 Val Ile Ser Glu Asn Gly Arg Thr Ile Asn Tyr Ala Asp Ser Val Lys 84 ggc cga ttc acc atc tcc aga gac aac gcc aag aac tca ctg ttt ctg 85 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Phe Leu 200 ... 205 86 195 88 cag atg aac agc ctg aca ggc gag gac acg gcc gtc tat tac tgt agt 689 Gln Met Asn Ser Leu Thr Gly Glu Asp Thr Ala Val Tyr Tyr Cys Ser 220 -215 210 92 aga gag ggg gga cct gga aca acg tcc aac cgg ctc gat gcc tgg ggc 93 Arg Glu Gly Gly Pro Gly Thr Thr Ser Asn Arg Leu Asp Ala Trp Gly 235 230 · 96 ccg gga gtc ctg gtc acc gtt tcc tca 97 Pro Gly Val Leu Val Thr Val Ser Ser, . 245 <u>-</u> 101 <210> SEO ID NO: 2 102 <211> LENGTH: 249 103 <212> TYPE: PRT 104 <213> ORGANISM: Macaca fascicularis
105 <223> OTHER INFORMATION 105 <223> OTHER INFORMATION: Coding sequence VL (1-109) - modified Huston linker (110-127) - VH (128-249) E--> 108 <400> SEQUENCE: 2 109 Ser Ser Glu Leu Thr Gln Gly Pro Ala Leu Ser Val Ala Leu Gly His 10 5 112 Thr Val Arg Met Thr Cys Gln Gly Asp Ser Leu Lys Thr Tyr Tyr Ala

113 20 25 30

115 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Val Pro Val Leu Val Ile Tyr

116 35 40 45

118 Gly Asn Asn Tyr Arg Pro Ser Gly Ile Pro Gly Arg Phe Ser Gly Ser

119 50 55 60

121 Trp Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Ala Ala Gln Val Glu

122 65 70 75 80

RAW SEQUENCE LISTING DATE: 08/06/2002 TIME: 14:10:46

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1/124 Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Trp Asp Ser Ser Gly Thr His
   127 Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu Gly Gln Ala Asn
   129 Gly Glu Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu
                           120
   ASI YOU GIN LES TES GIR SEP GIN TIN 60 ; Les TES Lys Fro HAN GIN DEP
                        135
   135 Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Ser Ser Ser Val
133 1 130
                150
  20138 Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
 136 145
   141 Val Ile Ser Glu Asn Gly Arg Thr Ile Asn Tyr Ala Asp Ser Val Lys
142 180 185
                 165
   144 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Phe Leu
147 Gln Met Asn Ser Leu Thr Gly Glu Asp Thr Ala Val Tyr Tyr Cys Ser
148 210 215
150 Arg Glu Gly Gly Pro Gly Thr Thr Ser Asn Arg Leu Asp Ala Trp Gly
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  33 153 Pro Gly Val Leu Val Thr Val Ser Ser
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E--> 165 <400> SEQUENCE: 3
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167 . 1 15
169 Leu Ser Arg Leu Gly Ala Ala Phe Asn Leu Asp Thr Arg Glu Asp Asn
   20 25 30 172 Val Ile Arg Lys Tyr Gly Asp Pro Gly Ser Leu Phe Gly Phe Ser Leu
   173 40, 45
  175 Ala Met His Trp Gln Leu Gln Pro Glu Asp Lys Arg Leu Leu Val
    176
    178 Gly Ala Pro Arg Gly Glu Ala Leu Pro Leu Gln Arg Ala Asn Arg Thr
     181 Gly Gly Leu Tyr Ser Cys Asp Ile Thr Ala Arg Gly Pro Cys Thr Arg
    182
  184 Ile Glu Phe Asp Asn Asp Ala Asp Pro Thr Ser Glu Ser Lys Glu Asp
    185 100 110
     187 Gln Trp Met Gly Val Thr Val Gln Ser Gln Gly Pro Gly Gly Lys Val
     188 115 120 125
189 Val Thr Cys Ala His Arg Tyr Glu Lys Arg Gln His Val Asn Thr Lys
     190 130
     192 Gln Glu Ser Arg Asp Ile Phe Gly Arg Cys Tyr Val Leu Ser Gln Asn
193 145.
     195 Leu Arg Ile Glu Asp Asp Met Asp Gly Gly Asp Trp Ser Phe Cys Asp
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RAW SEQUENCE LISTING DATE: 08/06/2002 PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt Output Set: N:\CRF3\08062002\J088639.raw

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213	Tyr	Leu.	Gly	Phe	Ser	Leu	Asp	Ser			Gly	Ile	Val	Ser	Lys	Asp
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. 216	Glu							Ala			Ala	Asn	His	Ser	Glv	Ala
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222	His	TTE	Phe	Asp	GTA	GIU	GTA	Leu	Ala	Ser	Ser	Phe	GLY.	Tyr	Asp	Val
223.	305	ALLEY SERV	T 4741 - 4777		flamor and	310				\$1.75°	315		Transfer N	7 . 1 . 2° 1 . 20	usa k Kr	320
225	Ala	Val:	Val.	Asp	Leu	Asn	Lys	Asp	Gly	Trp	Gln	Asp	Ile	Val	Ile	Gly
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228	Ala	Pro	Gln					Asn								Tyr
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		Tyr		Asn	GID,	GID	GTA.	Arg	Trp	Asn	Asn			Pro.	TTE	Arg.
232			355					360		•			3.65		•	
234	Leu	Asn	Gly	Thr	Lys	Asp	Ser	Met	Phe	Gly	Ile	Ala	Val	Lys	Asn	Ile
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237	Glv	Asp				Asp	Glv	Tvr	Pro	Asp	Tle		Val	G.lv	Ala	Pro
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243	_Ile	.Asn	Thr	Lys	Pro	Thr	Gln	Val	Leu	Lys	Gly	Ile	Ser	Pro	Tyr	Phe
244		•		420				•	425	•	•	٠.	•	430		
246	Gly	Tyr	Ser	Ile	Ala	Gly	Asn	Met	Asp	Leu	Asp	Arq	Asn	Ser	Tyr	Pro
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254	Ile	Asp	Leu	Arg	Gln.	Lys	Thr	Ala	Cys	Gly	Ala	Pro	Ser	Gly	Ile	Cys
255		•			485					490			•••••	· • 5	495	• •
257	Leu	Gln	Val	Lvs	Ser	Cvs	Phe	Glu	Tvr	Thr	Δla	A:sn	Pro	Ala	Glv	ጥህን
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261		•	515					520	•	٠			525	•		-
263	Arg	Lys	Ser	Gly	Leu	Ser	Ser	Arg	Val	Gln	Phe	Arg	Asn	Gln	Gly	Ser
264	· . ·	5.30					5.3.5	· .				540				
266	Glu	Pro	Lys	Tyr	Thr	Gln	Glu	Leu	Thr	Ĺeu	Lys	Ara	Gln	Lys	Gln	Lvs
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RAW SEQUENCE LISTING DATE: 08/06/2002 TIME: 14:10:46 PATENT APPLICATION: US/10/088,639

	260	ira 1	Cve	Met	Glu	Glu	Thr	Len	Trn	Len	Gln	Asp	Asn	Tle	Arg	Asp	Lvs	
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	284	_Lys	Phe	Cys	Thr	Arg	Glu	Gly	Asn	Gln			Phe	Ser	Tyr		Pro	
						645	•				650			•		655		
7	287	Ile	Gln	Lys	Gly	Val	Pro	Glu	Leu	Val	Leu	Lys	Asp	Gln	Lys	Asp	Ile	
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	- 291			675					680					685				
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, *	319	Glu	Phe	Arg	Val	Ile	Asn.	Leu	Gly	Lys	Pro	Leu.	Thr	Asn	Leu	Gly	Thr	
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RAW SEQUENCE LISTING DATE: 08/06/2002 PATENT APPLICATION: US/10/088,639 TIME: 14:10:46 Input Set : A:\003300-920.ST25.txt Output Set: N:\CRF3\08062002\J088639.raw

955 950 341 945 343 Phe Leu Glu Glu Tyr Ser Lys Leu Asn Tyr Leu Asp Ile Leu Met Arg 965 970 346 Ala Phe Ile Asp Val Thr Ala Ala Glu Asn Ile Arg Leu Pro Asn 985 349 Ala Gly Thr Gln Val Arg Val Thr Val The Pro Ser Lys Thr Val Ala 1000 1005 352 Gln Tyr Ser Gly Val Pro Trp Trp Ile Ile Leu Val Ala Ile Leu Ala 1010 1015 1020 355 Gly Ile Leu Met Leu Ala Leu Leu Val Phe Ile Leu Trp Lys Cys Gly 356 1025 1030 1035 1040 358 Phe Phe Lys Arg Asn Lys Lys Asp His Tyr Asp Ala Thr Tyr His Lys 359 1045 1050 1055 361 Ala Glu Ile His Ala Gln Pro Ser Asp Lys Glu Arg Leu Thr Ser Asp 1065 . 1070 1060 364 Ala
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367 <211> LENGTH: 1875
368 <212> TYPE: PRT
369 <213> ORGANISM: Human

371 <223> OTHER INFORMATION: Integrin beta-4 precursor

411 195 200 205

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413 Leu Thr Glu Asp Val Asp Glu Phe Arg Asn Lys Leu Gln Gly Glu Arg

ako mata ali oleh 🖟 oleh ketoleh menembalah menejaran birta baran jeri menejaran birta ingan baran ba

RAW SEQUENCE LISTING DATE: 08/06/2002 PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

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		His	Thr	Tyr		Pro	Val	Ser	ser		GIA	Val	Leu	Gin		Asp	Ser
	437		 	iervie	340	Serint se			LANGETT N.	345		ri-ne iv	/ *	···	350		
																Arg	Ser
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									Asp	ser	Pro	Arg			Arg.	Thr	GLu
. - .	443									• .			380,				•
													GLy	Ser	Phe	His	Ile
	. 446	385	· . 44				390					395		. :		·	400
**	448	Arg	Arg	Gly	Glu	Val	Gly	Ile	Tyr	Gln			Leu	Arg	Ala	Leu	Glu
	449				•	405				•	410					415	
	451	His	Val	Asp	Gly	Thr	His	Val	·Cys	Gln.	Leu	Pro	Glu	Asp	Gln	Lys	Gly
•	452		:		420					425					430		-
	454	Asn	Ile	His	Leu	Lys	Pro	Ser	Phe	Ser	Asp	Gly	Leu	Lys	Met	Asp	Ala
	455			.435	•				440		:			445		> :	
· · · · ·	457	Gly.	Ile	Ile	Cys	Asp	Val	Cys	Thr	Cys	Glu	Leu	Gln	Lys	Glu	Val.	Arg
	458		450					455					460.				
	460	Ser	Ala	Arg	Cys	Ser	Phe	Asn	Gly	Asp	Dha	ับลา	Cve.	Ġlv		Cys	Val
: 125		465									FILE	V CL L	CYS	GLY	GIn'		
							470			P	FILE	475	Cys	GLY	GIn	÷	480
	463	Cvs	Ser	Glu	Gly	Trp	470	• • •	•			475				•	480
	463 464						470 Ser	Gly	Gln	Thr	Cys	475 Asn	Суѕ			Gly 495	480
	464			٠. ; ٠.	· . · ·	485	470 Ser	Gly	Gln	Thr	Cys .490	475 Asn	Cys	Ser	Thr	Gly 495	480 Ser
	464 466	Leu		Asp	Ile	485	470 Ser	Gly	Gln	Thr Arg	Cys .490	475 Asn	Cys	Ser	Thr	Gly 495 Pro	480 Ser
	464 466 467	Leu	Ser	Asp	11e 500	485 Gln	470 Ser Pro	Gly Cys	Gln Leu	Thr Arg 505	Cys 490 Glu	475 Asn Gly	Cys Glu	Ser Asp	Thr Lys 510	Gly 495 Pro	480 Ser Cys
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	464 466 467 469 470 472 473 475 476 478 479 481 482	Leu Ser Gly Arg 545 Gln Leu	Ser Gly Arg 530 Thr Cys Ser Gly	Asp Arg 515 Tyr Ser Val Asn	Ile 500 Gly Glu Gly Cys Ala 580 Cys	485 Gln Glu Gly Phe Glu 565 Thr	470 Ser Pro Cys Gln Leu 550 Pro	Gly Cys Gln Phe 535 Cys Gly	Cys 520 Cys Asn Trp	Thr Arg 505 Gly Glu Asp Thr Ser 585	Cys 490 Glu His Tyr Arg Gly 570 Asn	475 Asn Gly Cys Asp Gly 555 Pro	Cys Glu Val Asn 540 Arg Ser Gly	Ser Asp Cys 525 Phe Cys Cys Ile	Thr Lys. 510 Tyr Gln Ser Asp Cys. 590 Gln	Gly 495 Pro Gly Cys Met Cys 575	480 Ser Cys Glu Pro Gly 560 Pro

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486 487	Tyr	Thr 610	Asp	Thr	Ile	Cys	Glu 615	Ile	Asn	Tyr	Ser	Ala 620	Ile	His	Pro	Gly
489	Leu 625	Cys	Glu	Asp	Leu	Arg 630	Ser	Суs	Val	Gln	Cys 635	Gln	Ala	Trp	Gly	Thr 640
492 493	Gly	Giu	Lys	Lys	Gly 645	Arg	Thr	Cys	Glu	Glu 650	Cys	Asn	Phe	Lys	Val 655	Ljs
495 496		Val	Asp	Glu 660	Leu	Lys	Arg	Ala	Glu 665	Glu	Val	Val	Val	Arg 670	Суѕ	Ser
498 499	Phe	Arg	Asp 675	Glu	Asp	Asp	Asp	Cys 680	Thr	Tyr	Ser	Tyr	Thr 685	Met	Glu	Gly
501 502	Asp	Gly 690		Pro	Gly.	Pro	Asn 695	ser	Thr	Vạl	Leu ·	Val 700	His	Lys	Lys	Lys
	Asp 705		Pro	Pro	Gly	Ser 710	Phe	Trp	Trp	Leu	Ile 715	Pro	Leu	Leu	Leu	Leu 720
50 7	Leu	Leu	Pro	Leu	Leu 725	Ala	Leu	Leu	Leu ·	Leu 730	Leu	Cys	Trp	Lys	Tyr 735	Cys
¹ 510 511		Cys		Lys 740	Ala	Cys	Leu		Leu 745						Arg	
514	-		7.55				٠.,	760			. ,		7.6.5	· · ·		
	Met		Ser	Asp	His	Leu	Asp 775	Thr	Pro	Met	Leu	Arg 780	Ser	Gly	Asn	Leu
520	Lys 785					790					795				•	800
522 523	Pro	Gly	Phe	Ala	Thr 805	His	Ala	Ala	Ser	Ile 810	Asn	Pro	Thr	Glu	Leu 815	Val
526				820	•	1.6		:	825	•		•		830		•
529	Leu		835		17.44			840	•	٠.	.:		845	•	• •	
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	865	÷ .		<i></i> .		Arg 870	855 Gln	Gln	Pro	Asn	Ala 875	860 Gly	Lys	Lys	Gln	Asp. 880
538	His	Thr	Ile	Val	Asp 885	Arg 870 Thr	855 Gln Val	Gln Leu	Pro Met	Asn Ala 890	Ala 875 Pro	860 Gly Arg	Lys Ser	Lys Ala	Gln Lys 895	Asp. 880 Pro
538 540 541	His Ala	Thr Leu	Ile Leu	Val Lys 900	Asp 885 Leu	Arg 870 Thr	855 Gln Val Glu	Gln Leu Lys	Pro Met Gln 905	Asn Ala 890 Val	Ala 875 Pro Glu	860 Gly Arg Gln	Lys Ser Arg	Lys Ala Ala 910	Gln Lys 895 Phe	Asp. 880 Pro
538 540 541 543	His Ala Asp	Thr Leu Leu	Ile Leu Lys 915	Val Lys 900 Val	Asp 885 Leu Ala	Arg 870 Thr Thr	855 Gln Val Glu Gly	Gln Leu Lys Tyr 920	Pro Met Gln 905 Tyr	Asn Ala 890 Val Thr	Ala 875 Pro Glu Leu	860 Gly Arg Gln Thr	Lys Ser Arg Ala 925	Lys Ala Ala 910 Asp	Gln Lys 895 Phe Gln	Asp 880 Pro His
538 540 541 543 544 545	His Ala Asp	Thr Leu Leu Arg	Ile Leu Lys 915	Val Lys 900 Val	Asp 885 Leu Ala Val	Arg 870 Thr Thr Pro	855 Gln Val Glu Gly	Gln Leu Lys Tyr 920 Gln	Pro Met Gln 905 Tyr	Asn Ala 890 Val Thr	Ala 875 Pro Glu Leu	860 Gly Arg Gln Thr	Lys Ser Arg Ala 925	Lys Ala Ala 910 Asp	Gln Lys 895 Phe Gln	Asp 880 Pro His
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538 540 541 543 544 545 546 548	Ala Asp Ala Arg 945 Leu	Thr Leu Leu Arg 930 Val	Leu Lys 915 Gly	Val Lys 900 Val Met Leu	Asp 885 Leu Ala Val	Arg 870 Thr Thr Pro Glu Ile 950	855 Gln Val Glu Gly Phe 935 Arg	Gln Leu Lys Tyr 920 Gln Pro	Pro Met Gln 905 Tyr Glu Glu	Asn Ala 890 Val Thr Gly Asp	Ala 875 Pro Glu Leu Val Asp 955 Thr	860 Gly Arg Gln Thr Glu 940 Asp	Lys Ser Arg Ala 925 Leu Glu	Lys Ala Ala 910 Asp Val	Gln Lys 895 Phe Gln Asp	Asp. 880 Pro His Asp Val Leu 960
538 540 541 543 544 545 546 548 551	His Ala Asp Ala Arg 945 Leu	Thr Leu Leu Arg 930 Val	Ile Leu Lys 915 Gly Pro	Val Lys 900 Val Met Leu	Asp 885 Leu Ala Val Phe 11e 965 Ile	Arg 870 Thr Thr Pro Glu Ile 950 Asp	855 Gln Val Glu Gly Phe 935 Arg	Gln Leu Lys Tyr 920 Gln Pro	Pro Met Gln 905 Tyr Glu Glu Ala	Asn Ala 890 Val Thr Gly Asp Gly 970	Ala 875 Pro Glu Leu Val Asp 955 Thr	860 Gly Arg Gln Thr Glu 940 Asp	Lys Ser Arg Ala 925 Leu Glu Thr	Lys Ala Ala 910 Asp Val Lys Leu	Gln Lys 895 Phe Gln Asp Gln Gly 975	Asp. 880 Pro His Asp Val Leu 960 Arg

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Input Set : A:\003300-920.ST25.txt Output Set: N:\CRF3\08062002\J088639.raw

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		Leu	GTII		Lys	теп	Leu	Glu			GIU	vaı	Asp			ьеu	Arg
	570	a1	3		1060	2	3	Db -		L065	a1 -	T	G		L070	T	Dh.
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- 4					Leu				HIS	ser	THE			TTE	TIE	Arg	Asp
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	582					1125				· - 1	1130	·	· 🚣 122			135	Gly
	584	Ата	Ата	GTA	Ser	Arg	гÀг	тте	HIS	Pne	Asn	ттр	Leu	Pro	Pro	ser	GTA
. 444.					Gly.												
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	590	ser	GIU	Ата	His	Leu.	Leu	Asp	ser	ГĀЗ	Val	Pro	Ser	vаı	GIU.	ren	Thr
	291	ا	1/0			- A		LT/2				- e -	TTRO	·		·	
	593	Asn	reu	Tyr	Pro	LAL	Cys	Asp	Tyr	GIU	мет	TAS	vaı	Cys	Ата	TYL	GTA
- 19						_										_	
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	597		.			1205	~ 3				1510					215	
149 7 1	- 599	GIn.	GIU	vaı	Pro 1220	ser	GIU	Pro			ьeu	Ата	Pne			val	ser
en de la companione										L225			· ·		L230		
	602	ser-			Thr											Asn	GTĀ
•• • •	603			L235		m	~1.	77- 7	1240					L245			
2.7 - 11	604	GIU	TTE	Thr	Ala	Tyr	GIU	val	Cys	Tyr	GTĀ.			Asn	Asp	Asp	Asn.
; *		1											1260				
					Gly												
												1275					L280
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•	613	Inr	val		Ala	Arg	Asn	GTA			Trp	GTĀ	Pro			GIU	Ala
ere.	614				1300		m)	·	ا	L305		•			L310		
	ρ _Τ ρ	TT6	тте	ASD	Leu	Ala	Thr	GIN	Pro	г'ns	Arg	Pro				Pro	11e
•									1320					L325			
•					Ile	Pro				Ala.	GIn				Asp	Tyr	Asp
		1					•	1335		+	_		L340				_
				Leu	Met			Asp		val				Pro	ser		
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				hto	.Ser		ser	Asp	Asp	Tnr	GTA.	Cys	GTA	lrb			GIU
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		Pro	Leu	reu	Gly 1380	GIU	Glu	Leu	Asp	Leu	Arg	Arg	vai	Thr	1.Lb	Arg	Leu
	629			٠.	TRA	•	-			1385			• •	.]	L390		•
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	631	Pro	Pro	Glu	Leu	Ile	Pro	Arg	Leu	Ser	Ala	Ser	ser	Gly	Arg	Ser	Ser
	632]	1395]	L400					1405			
	634	Asp	Ala	Glu	Ala	Pro	Thr	Ala	Pro	Arg	Thr	Thr	Ala	Ala	Arg	Ala	Gly
•	635		1410					L415				_	1420				
٤.	637	Arg	Ala	Ala	Ala	Val	Pro	Aig	Ser	Ala	Thr	Pro	Gly	Pro	Pro	Gly	Glu
. ,		1425					L430					435					L440
	640	His	Leu	Val	Asn	Gly	Arg	Met	Asp	Phe	Ala	Phe	Pro	Gly	Ser	Thr	Asn
🌲 59	64.1.:				1	L445				1	450				1	455	
105	.643	Ser	Leu	His	Arg	Met	Thr	Thr			Ala	Ala	Ala	\mathtt{Tyr}	Gly	Thr	His
	644				1460				_	1465					L 4 70		
N	646	Leu					Pro			Val	Leu	Ser		Ser	Ser	Thŗ	Leu
• •	647				• . • • •		-		L480					1485			
	649	Thr	Arg	Asp	Tyr	Asn	Ser	Leu	Thr		Ser			Ser	His	Ser	Thr
													L500			•	
				Pro	Arg			Ser	Thr	Leu			Val	Ser			
	653,	1505	5				L510			•		.515	٠.	• •	• 4.		1520
	655	Leu.	Pro	Pro	Ile	Trp	Glu	His	Gly	Arg	Ser	Arg	Leu	Pro	Leu	Ser	Trp
tanakii kii ka Tiratii kii ma																	
	658	Ala	Leu	Gly	Ser	Arg	Ser	Arg	Ala	Gln	Met	Lys	GLY	Phe	Pro	Pro	Ser
- × *:	659	57 <u>"</u> v - 11			1540	` <u>-</u>			,_,_	L545			_	- 1	1550	-	<u></u>
·															ALa.	ата.	.Pro
	662								L560					1565			5
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٠. ٠. ٠	664	mb	L570	T 011	3703	Dho		L575	T 0	G1	Dwo		L580	Leu	7	מביד	
		1585	-	Leu	vaı		Ser 1590	АІд	Leu	GIY		595	ser	Leu	AIG		Ser 1600
				C-I v	Dro			C111	7 ~~	Dwo			C1,,	Tyr	202		
	670	. –	GTin	Gru		L605	_	GIU.			.610				ser]	•	GIU
			Gln:	T.en										Asn			Agn.
	673		Girii		1620		GLY			1625		. nr g	Leu		1630	FIO	
		•	Ala						_		Asp	Len	Len	Pro		His	Ser
·.·	676		-	1635	:	201			1640	0.14.	TIPP.	Dea		1645		****	, DCI.
• • • • •		Tvr			Ara	.Val	Arg"			Ser	Gln	GIn	-	Trp	Glv	Αrσ	Glu
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				Gŀv	Val				Glu					Pro	Gln	Ser	Pro
										٠							L680
														Thr	Pro	Ser	Ala
				••		L685				_	6.90					695	
•				Pro			Phe				Ser	Pro	Asp	Ser	Leu	Gln	Leu
	688				1700					1705					1710	•	
	690	Ser	Trp	Glu	Arg	Pro	Arg	Arg	Pro	Asn	Gly	Asp	Ile	Val	Gly	Tyr	Leu.
	691	٠.	.]	Ŀ715	•]	L720	,				1725		. · ·	•
	693.	Val	Thr	Cys	Gļu	Met	Ala	Gln	Gly	Gly	Gly	Pro	Ala	·Thr.	Ala.	Phe	Arg
	694		730				_	L735				_	740				
	696	Vàl	Asp	Gly	Asp	Ser	Pro	Glu	Ser	Arg	Leu.	Thr	Val	Pro	Gly	Leu	Ser
																	L760'
	699	Glu	Asņ	,val					Lys	Val	Gln			Thr			Gly
	700			•		L765			٠	1						.775	
• -	702	Phe	Glý	Pro	Glu	Arg	Glu	Gly	Ile	Ile	Thr	Ile	G1u	Ser	Gln.	Asp	Gly

DATE: 08/06/2002

TIME: 14:10:46

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                 Output Set: N:\CRF3\08062002\J088639.raw
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                                1785
    705 Gly Pro Phe Pro Gln Leu Gly Ser Arg Ala Gly Leu Phe Gln His Pro
    706 1795 1800 1805
    708 Leu Gln Ser Glu Tyr Ser Ser Ile Thr Thr His Thr Ser Ala Thr
    709 1810 1915
                                        1820
    711 Glu Pro Phe Leu Val Asp Gly Pro Thr Leu Gly Ala Gln His Leu Glu
    712 1825 1830 1835
    714 Ala Gly Gly Ser Leu Thr Arg His Val Thr Gln Glu Phe Val Ser Arg
         1845 1850 1855
    717 Thr Leu Thr Thr Ser Gly Thr Leu Ser Thr His Met Asp Gln Gln Phe
   718 1860 1865 1870
720 Phe Gln Thr
   720 Phe Gln Thr
721 1875
722 <210> SEQ ID NO: 5
723 <211> LENGTH: 8
724 <212> TYPE: PPT
   721 1875
   724 <212> TYPE: PRT
    725 <213> ORGANISM: Human
727 <223> OTHER INFORMATION: Amino acids 61-68 of SEQ ID NO: 3

E--> 729 <400> SEQUENCE: 5

730 Leu Leu Val Gly Ala Pro Arg
   734 <210> SEQ ID NO: 6
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   736 <212> TYPE: PRT
737 <213> ORGANISM: Human
  739 <223> OTHER INFORMATION: Amino acids 77-96 of SEQ ID NO: 3
E--> 741 <400> SEQUENCE: 6
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   743 1 5 10
745 Pro Cys Thr Arg
  7,46 20....
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 751 <212> TYPE: PRT
752 <213> ORGANIȘM: Human
   754 <223> OTHER INFORMATION: Amino acids 127-137 of SEQ ID NO: 3
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.... 757 Val Val Thr Cys Ala His Arg Tyr Glu Lys
       1 5 10
   758
   761 <210> SEQ ID NO: 8
    762 <211> LENGTH: 7
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    766 <223> OTHER INFORMATION: Amino acids 138-144 of SEQ ID NO: 3
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   769 Arg Gln His Val Asn Thr Lys
  770 1 5
   773 <210> SEQ ID NO:
   774 <211> LENGTH: 9
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RAW SEQUENCE LISTING

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DATE: 08/06/2002

TIME: 14:10:46

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                Output Set: N:\CRF3\08062002\J088639.raw
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                              3 am
   776 <213> ORGANISM: Human
   778 <223> OTHER INFORMATION: Amino acids 154-162 of SEQ ID NO: 3
=--> 780 <400> SEQUENCE: 9
   781 Cys Tyr Val Leu Ser Gln Asn Leu Arg
   782 1 5
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   792 1 5
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   795 <210> SEQ ID NO: 11
   796 <211> LENGTH: 16
797 <212> TYPE: PRT 798 <213> ORGANISM: Human
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  804 1 5 10 15 .
807 <210> SEQ ID NO: 12
 808 <211> LENGTH: 11
 809 <212> TYPE: PRT
810 <213> ORGANISM: Human
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 812 <223> OTHER INFORMATION: Amino acids 272-282 of SEQ ID NO: 3
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819 <210> SEQ ID NO: 13
 820 <211> LENGTH: 11
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   821 <212> TYPE: PRT
   822 <213> ORGANISM; Human
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 831 <210> SEQ ID NO: 14
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 836 <223> OTHER INFORMATION: Amino acids 328-343 of SEQ ID NO: 3
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  839 Asp Gly Trp Gln Asp Ile Val Ile Gly Ala Pro Gln Tyr Phe Asp Arg
840 1 15
  841 <210> SEQ ID NO: 15
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,639

DATE: 08/06/2002

TIME: 14:10:46

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Input Set : A:\003300-920.ST25.txt
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    849 Asp Gly Glu Val Gly Gly Ala Val Tyr Val Tyr Met Asp Gln Gln Gly
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 852 Arg
 856 <210> SEQ ID NO: 16
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   861 <223> OTHER INFORMATION: Amino acids 361-368 of SEQ ID NO: 3
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   864 Trp Asn Asn Val Lys Pro Ile Arg
    865 1 5
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871 <213> ORGANISM: Human
873 <223 OTHER INFORMATION: Amino acids 383-406 of SEQ ID NO: 3
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 87.6-Asn Ile Gly Asp Ile Asn Gln Asp Gly Tyr Pro Asp Ile Ala Val Gly
    877 1 5 10
  879 Ala Pro Tyr Asp Asp Leu Gly Lys
  880 20
883 <210> SEQ ID NO: 18
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886 <213> ORGANISM: Human
 888 <223> OTHER INFORMATION: Amino acids 427-444 of SEQ ID NO: 3
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   892 1 5. 10 15
894 Asp Arg
896 <210> SEQ ID NO: 19
897 <211> LENGTH: 19
898 <212> TYPE: PRT
899 <213> ORGANISM: Human
 . 901 <223 > OTHER INFORMATION: Amino acids 445-463 of SEQ ID NO: 3
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. 907 Ile Phe Arg
 904 Asn Ser Tyr Pro Asp Val Ala Val Gly Ser Leu Ser Asp Ser Val Thr
   911 <210> SEQ ID NO: 20
  912 <211> LENGTH: 9
   913 <212> TYPE: PRT
 914 <213> ORGANISM: Human
 916 <223> OTHER INFORMATION: Amino acids 464-472 of SEQ ID NO: 3
E--> 918 <400> SEQUENCE: 20
   919 Ser Arg Pro Val Ile Asn Ile Gln Lys
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,639

RAW SEQUENCE LISTING

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and emors shown exist throughout

Listing. Please check subsequent

sequences for similar evects.

PATENT APPLICATION: US/10/088,639

TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt

Output Set: N:\CRF3\08062002\J088639.raw

920 1

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1138 <211> LENGTH: 18

1139 <212> TYPE: PRT

1140 <213> ORGANISM: Human

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E--> 1144 <400> SEQUENCE: 39Ala Leu Glu His Val Asp Gly Thr His Val Cys Gln Leu Pro Glu

1145 Asp

E--> 1146 1

E--> 1148 Gln Lys

.Lur.SE0.1D+.30

15

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\text{Li}:108\ \text{M}:200\ \text{E}:\ \text{Mandatory Header Field missing, }<220>\ \text{not found for SEQ ID}\#:2
 5:165 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:3
 ゴ:373 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:4
 129 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:5
5:741 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:6
\text{L:756 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:7}
L:768 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:8
L:780 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:9 L:790 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:10
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L:1132 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:38
L:1144 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:39
L:1146 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:39
L:1148 M:252 E: No. of Seq. differs, <211> LENGTH:Input:18 Found:3 SEQ:39
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L:1232 M:200 E: Mandatory Header Field missing, <220> not found for SEQ.ID#:46
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Input Set : A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

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